

## Peacekeeper Vehicle TRD Questions & Answers

**Note: The PK TRDs will be modified (as appropriate) to reflect these clarifications.**

### **Peacekeeper Target Vehicle (PK TV)**

3.2.1.2.1 Need definition of electrical current requirements to define umbilical.

*The current requirements will vary according to type of circuit and payload specific requirements. These will be worked out through the payload integration and ICDs. The highest current for ground power (highest potential requirement) should be £ 10 amps.*

3.2.1.2.2.1 How many serial digital interfaces? Will ultimately need to know communication protocol specifics.

*The current TLV payload uses one serial interface.*

3.2.1.2.2.2 How many 28 V discrete channels?

*Four redundant discretes for eight discretes total.*

3.2.1.2.2.3 Must both serial data and discrete commands be verified?

*Yes.*

3.2.1.2.3 Is the specification of the optical isolation a requirement on the FS or a description of the interface on the payload side?

*Payload side.*

3.2.2.3.2 Is the purpose of the nitrogen purge spot cooling or moisture control? Can a required flow rate be estimated?

*The primary purpose is moisture control. Contractor shall determine required rate for available volume.*

3.2.3.7 Are there any timeline requirements for the specified maneuvers?

*Typical timelines can be found in sample missions or current Mission Requirement Documents in the bidder's library. Specific mission timelines will be developed as part of the mission planning process.*

3.2.4 There is no requirement to merge payload telemetry with LV telemetry?

*Not currently required for target launches.*

3.2.5 What equipment is included with the OT&E system? Ground support equipment?

*The government will provide downstage ordnance and the truss with components of the PK flight safety system. (List of specific components is being obtained and will be available upon completion)*

Appendix Para A-1: Are there any deployment timeline requirements?

*Timelines will be determined during the mission planning process.*

### **Peacekeeper Space Lift Vehicle**

3.2.2.1.1 A cylinder 80" in diameter and 120" long requires a fairing longer than Taurus or Athena. Are these truly cylindrical dimensions?

*Yes, these are close to the large Taurus fairing. PK is 92" in diameter so it doesn't require a hammer head for this diameter and there isn't a strong reason to go to a smaller diameter.*

3.2.2.1.2 No specifics are provided for the mechanical payload interface. Are these TBD, or at the contractors discretion?

*A bolt ring pattern is baseline for Minuteman. Contractor discretion on a proposed interface is acceptable for the proposal.*

3.2.2.2.1 No safing requirements for payload ordnance?

*Follow 127-1 requirements.*

3.2.2.2.1 How many 28 V discrete outputs are required?

*Contractor should assume multiple outputs may be required for some or all of the 16 discrete circuits. Exact requirements will be determined on a mission-by-mission basis and specified in the ICD.*

3.2.2.2.2 These circuits are differential, correct?

*These circuits (within the 16 kbps limit) could be a combination of serial or analog data and will be defined for specific payloads in the ICD.*

Paragraph Appendix, A-1: The increased payload envelope...

*The listed dimensions are the Minuteman increased envelope. We are currently evaluating the increased PK size and will modify the TRD accordingly.*

*There may be hazardous payloads. Specific payloads have not been defined at this time.*